

### [54] DECAPEPTIDES PRODUCED FROM BIOADHESIVE POLYPHENOLIC PROTEINS

[75] Inventor: J. Herbert Waite, Collinsville, Conn.

[73] Assignee: University of Connecticut Research & Development Corporation, Farmington, Conn.

[21] Appl. No.: 587,132

[22] Filed: Mar. 7, 1984

[51] Int. Cl.<sup>4</sup> ..... C07C 103/52; C12P 21/06

[52] U.S. Cl. .... 260/112.5 R; 435/69

[58] Field of Search ..... 260/112.5 R

### [56] References Cited

#### U.S. PATENT DOCUMENTS

4,302,386 11/1981 Stevens ..... 260/112.5 R

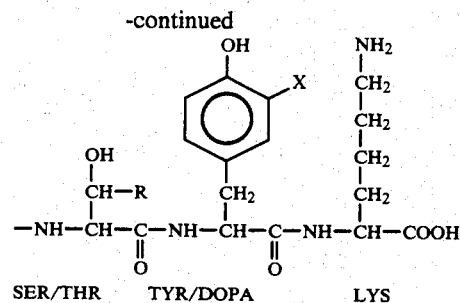
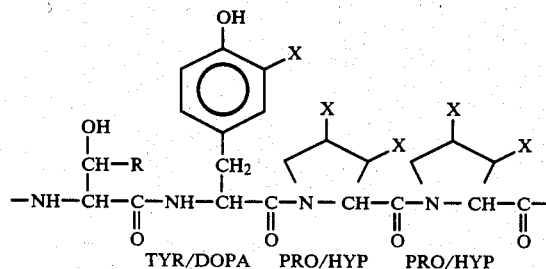
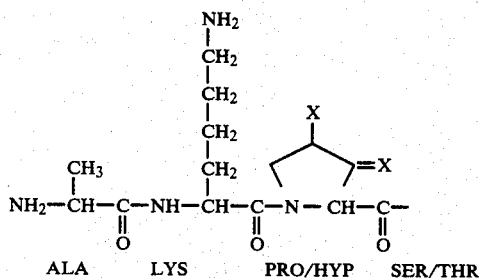
#### OTHER PUBLICATIONS

The Journal of Biological Chemistry, vol. 258, No. 5, Issue of Mar. 10, 1983, 2911-2915.

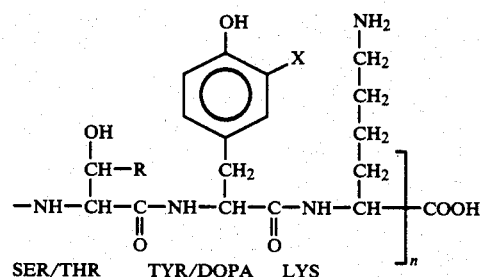
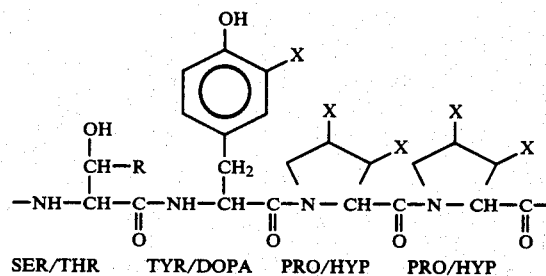
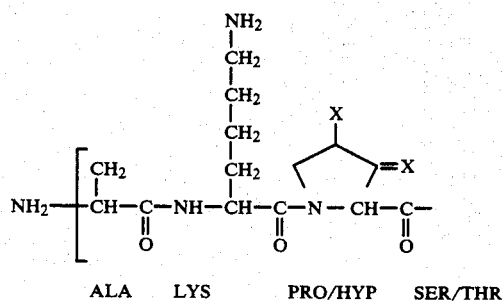
Primary Examiner—Delbert R. Phillips  
Attorney, Agent, or Firm—Jones, Day, Reavis & Pogue

### [57] ABSTRACT

Methods are described for the preparation and isolation of novel decapeptides of the formula:



wherein each X is independently selected from the group comprising hydroxyl and hydrogen, wherein each R is independently selected from the group comprising hydrogen and methyl, from bioadhesive polyphenolic proteins which comprise:



wherein n is a whole number from about 60 to about 100, wherein each X is independently selected from the group comprising hydroxyl and hydrogen, and wherein each R is independently selected from the group comprising hydrogen and methyl.

Such decapeptides may be used to construct large polyphenolic molecules comprising from about 1 to about 1000 decapeptide repeating units and wherein the linking group is selected from the group comprising amino acid, oligopeptide and bifunctional spacer.

3 Claims, No Drawings